

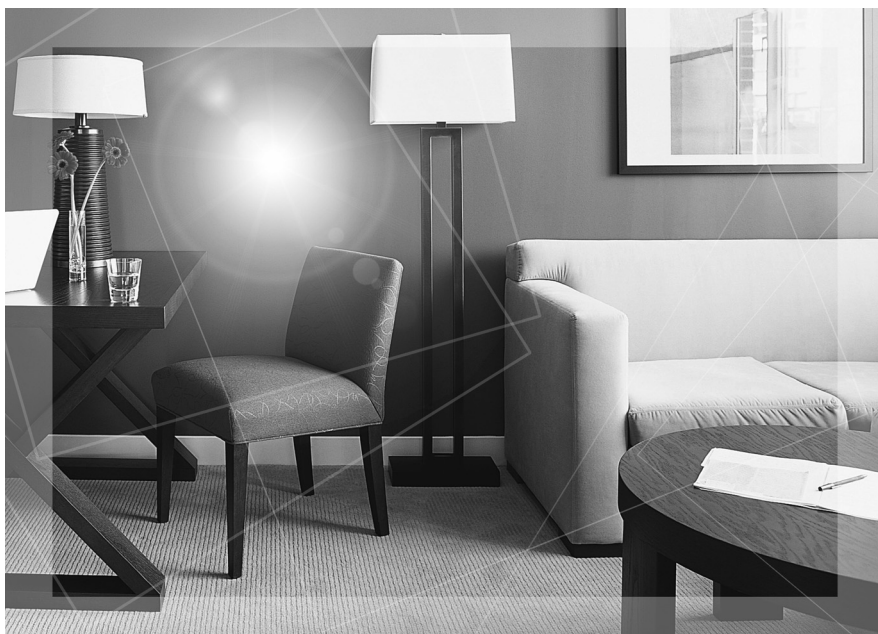
Panasonic

Digital Cordless Phone

Operating Instructions

Model No. **KX-TG2340JX**

Pulse-or-tone dialing capability



The unit is Caller ID compatible. To display the caller's phone number, you must subscribe to Caller ID service.

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for 6 hours before initial use.

Thank you for purchasing your new Panasonic cordless telephone.

Caller ID Service, where available, is a telephone company service. After subscribing to Caller ID, this phone will display a caller's phone number.

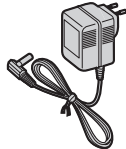
For your future reference

Serial No. _____ Date of purchase _____
 (found on the bottom of the unit)

Name and address of dealer _____

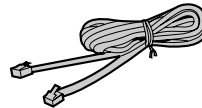
Accessories (included)

AC Adaptor (p. 8)



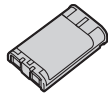
one

Telephone Line Cord (p. 8)



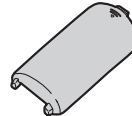
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Battery (p. 9)



one

Handset Cover (p. 9)



one

Belt Clip (p. 50)



one

Shoulder Rest Attachment (p. 50)

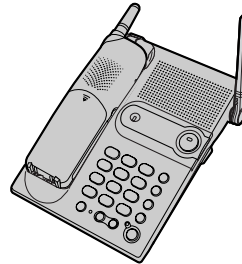


one

For Best Performance

Battery Charge

The handset is powered by a rechargeable Nickel-Metal Hydride (Ni-MH) battery. Charge the battery for **6 hours** before initial use (p. 9).

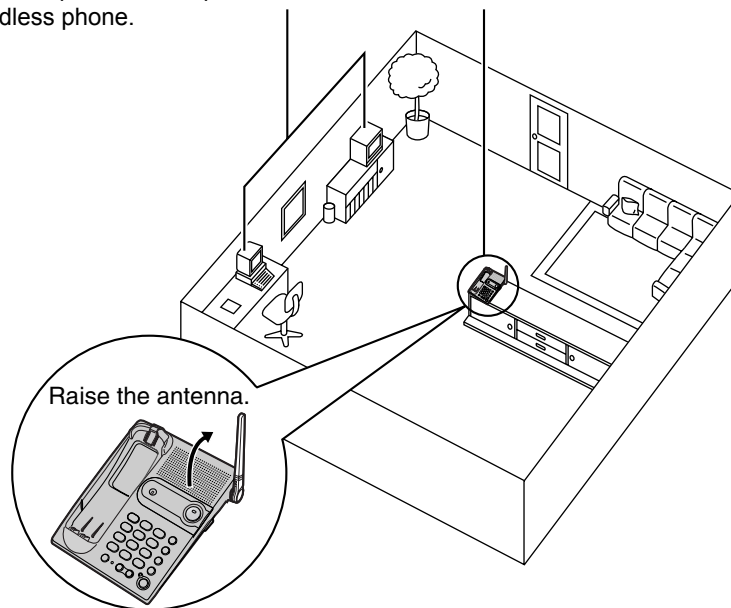


Base Unit Location/Noise

Calls are transmitted between the base unit and handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer or another cordless phone.

In a **HIGH** and **CENTRAL** location with no obstructions such as walls.



Note:

- If you use the handset near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

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Preparation

Basic Operation

Advanced Operation

Useful Information

Important:

Throughout these Operating Instructions, **Handset** and **Base Unit** are used to indicate with which unit an operation can be performed.

Handset : Perform with the handset.

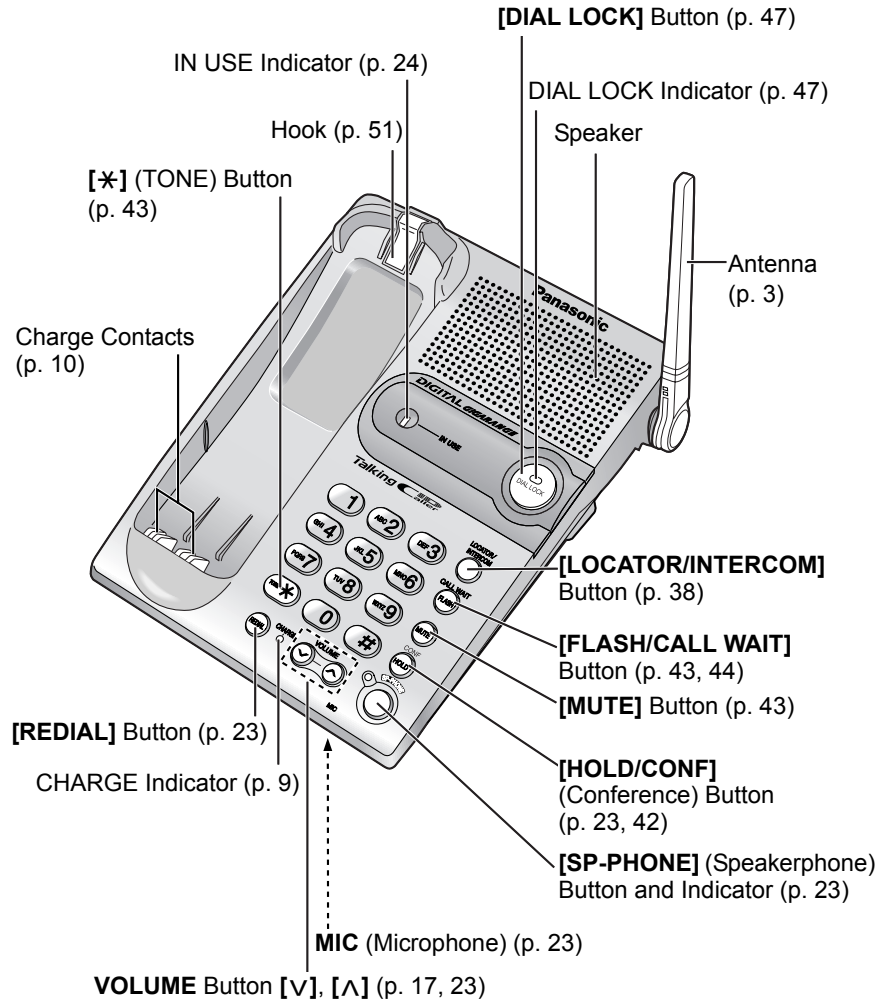
Base Unit : Perform with the base unit.

Handset Base Unit : Perform with the handset and base unit separately.

Handset & Base Unit : Perform with the handset and base unit together.

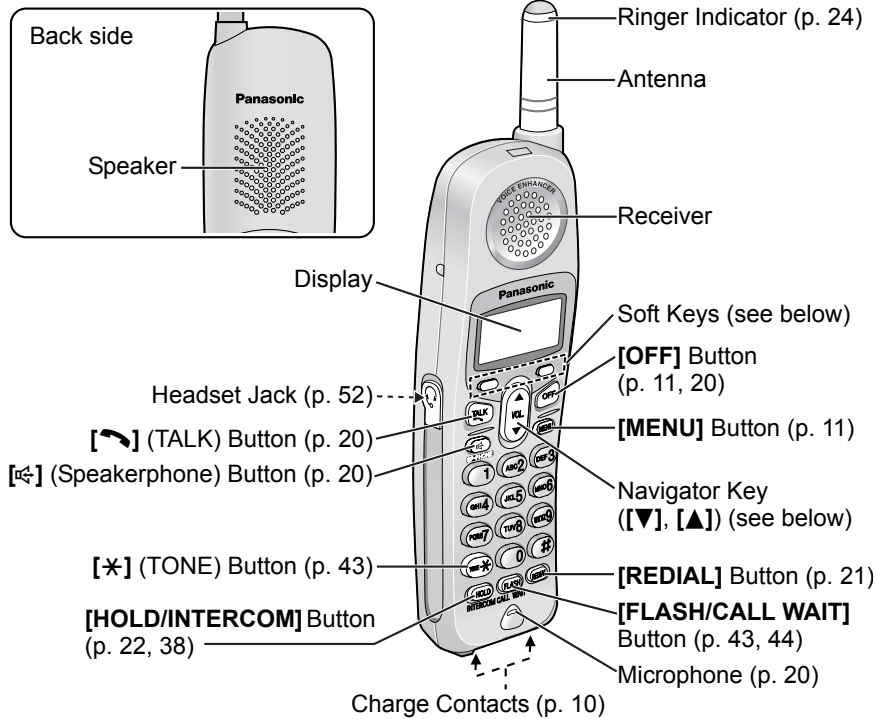
Location of Controls

Base unit



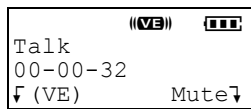
Location of Controls

Handset



Preparation

Handset soft keys



Two soft keys are used to select functions displayed directly above each key. Functions displayed above the keys will change depending on the state of use.

On this sample display, "VE" and "Mute" are displayed above soft keys.



Pressing the right soft key selects mute "Mute".

Pressing the left soft key selects Voice Enhancer "VE".

- When a function name does not appear above a soft key, the soft key has no function.

Handset navigator key



Scrolls up [▲] and down [▼] the function menu, the Caller List and the phone book.

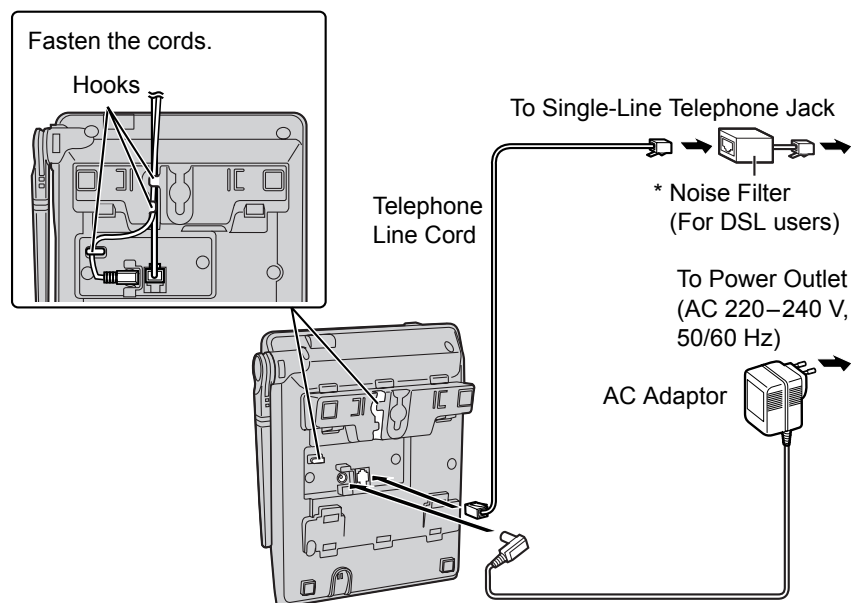
Increases [▲] or decreases [▼] the handset ringer and receiver/speaker volumes.

Throughout these Operating Instructions:

- The soft keys are indicated by what is displayed above the keys.
Ex. "Press **Mute**." indicates "Press the soft key below **Mute**".
- The navigator key is indicated by the arrows [▼] or [▲].

Installation

Connections

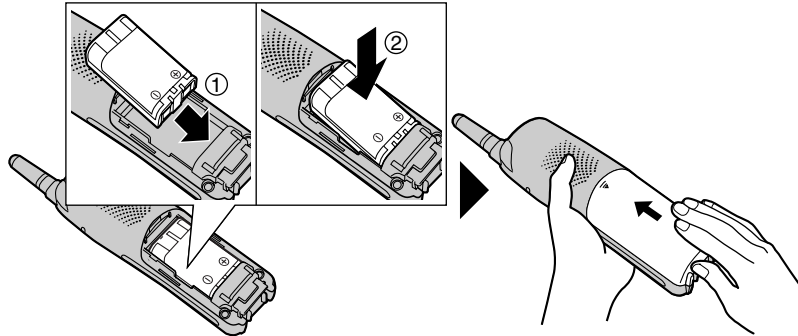


- USE ONLY WITH Panasonic AC ADAPTOR PQLV1BX.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID services.
- The unit will not work during a power failure. We recommend connecting a standard telephone to the same telephone line or to the same telephone jack using a T-adaptor.
- When more than one unit is used, the units may interfere with each other. To prevent or reduce interference, please keep ample space between the base units.
- * If the unit is connected to a telephone line with DSL service, you may hear noise from the receiver or speaker during conversations or the unit may not display caller's phone number properly. We recommend connecting a noise filter (contact your DSL service provider) to the telephone line between the unit and the telephone line jack.

Installation

Installing the Battery in the Handset

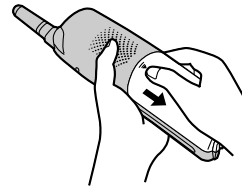
Insert the battery (①), and press it down until it snaps into the compartment (②).
Close the cover.



Preparation

To replace the battery:

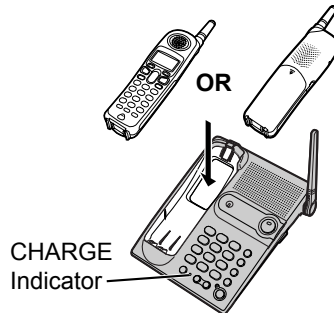
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with a new one (p. 10). Close the cover and charge the battery for 6 hours.



Battery Charge

Place the handset on the base unit.
Charge for **6 hours** before initial use.

- The unit beeps once, the CHARGE indicator lights, and "Charging" is displayed.
- When the battery is fully charged, "Charge completed" is displayed.



Battery strength


You can confirm battery strength on the handset display. Battery strength is indicated by the icons shown in the chart to the right.

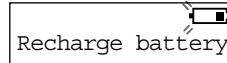
Display prompt	Battery strength
	Fully charged
	Medium
	Low
	Needs to be recharged.
	Discharged



Installation

Recharge



Recharge the battery when:

- “Recharge battery” is displayed on the handset,
- “” flashes, or
- the handset beeps intermittently while it is in use.



- The display will continually indicate “Recharge battery” and/or “” will flash when the handset battery is charged for less than 15 minutes and the handset is lifted off the base unit.
- If the battery has been discharged, the handset will display “Charge for 6h” and “” when you place the handset on the base unit. The handset will not work unless the battery is charged. Continue charging.


Battery replacement:

If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, “Recharge battery” is displayed and/or “” continues to flash, or “Charge for 6h” and “” are displayed, the battery may need to be replaced. Please replace with a new Panasonic HHR-P104 battery. To replace the battery, see page 9.

Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

Operation	Operating time
While in use (TALK)	Up to 5 hours
While not in use (Standby)	Up to 11 days

- A fully charged battery will give you up to 5 hours of continuous talk time, or keep your handset in Standby mode to receive incoming calls for up to 11 days (if no phone calls are made). Battery power is consumed whenever the handset is off of the base unit, even when the handset is not in use. The longer you leave the handset off of the base unit, the time you can actually talk on the handset will be shortened. Actual battery performance depends on a combination of how often the handset is in TALK mode and how often it is in Standby mode.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “Recharge battery” is displayed and/or “” flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the handset on the base unit when the handset is not used. The battery cannot be overcharged.

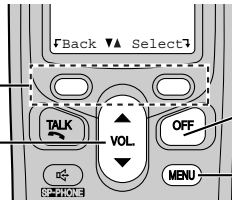
Programmable Settings

Programming Guidelines **Handset**

This unit has several programmable functions which can be selected from the function menu on the display (p. 12).

The soft keys selects the functions displayed above each soft key.

When “▼” or “▲” is displayed, navigator key scrolls through the menu.



[OFF] exits programming.

[MENU] enters the function menu.

Preparation

How to select a function item from the menu

Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.

1 Press **[MENU]**.

- The main menu is displayed (p. 12).

2 Scroll to the desired item by pressing **[▼]** or **[▲]**.



3 Press **select** to select the desired item.



4 If the item has a sub-menu, select the menu item (p. 12). Repeat steps 2 and 3 until the desired item is displayed. If the item has no sub-menu, go to step 5.

5 Select the desired setting by pressing **[▼]** or **[▲]**, then press **save** to save your setting.

- A confirmation tone will be heard and the setting will be saved.



6 Press **[OFF]** to exit programming mode.

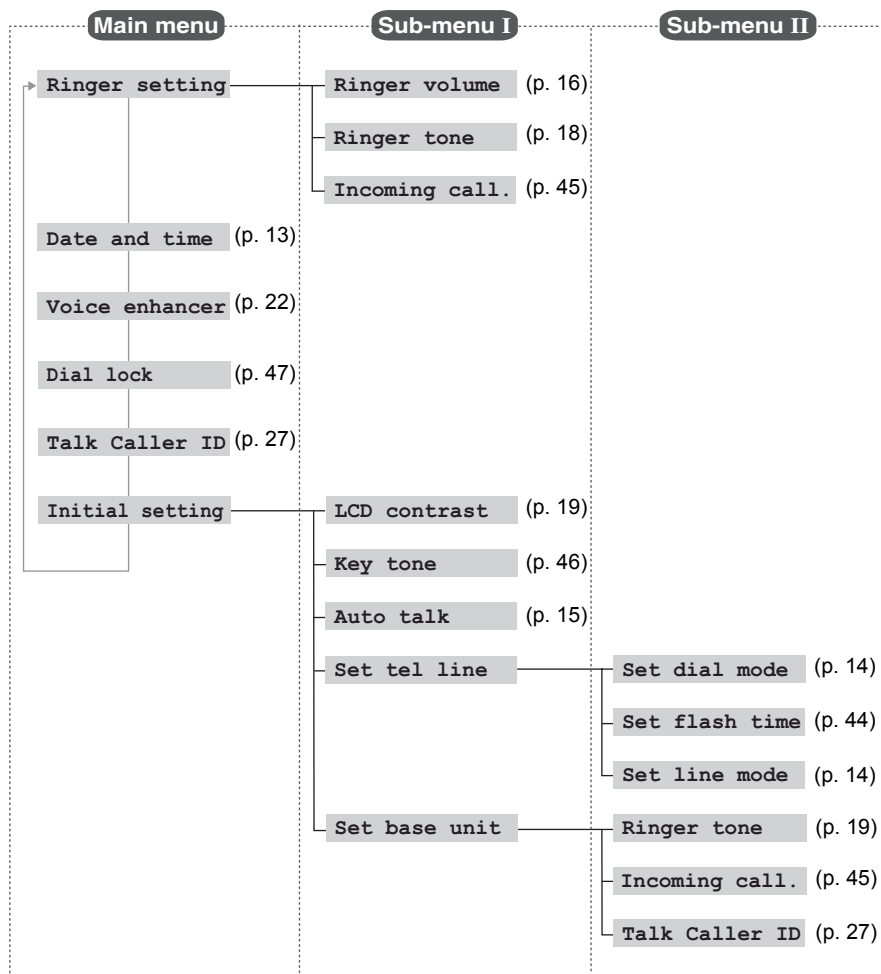
- To go back to the previous menu, press **Back**, or press **select** while “--- (Go back) ---” is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on which menu the selected item is located. (See the menu table on page 12.)
- You can exit programming mode at any time by pressing **[OFF]**.
- If you do not press any buttons for 60 seconds, the handset will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 54) and/or error beeps will sound.

Programmable Settings

Function Menu Table **Handset**

You can use the following functions to customize your unit. See the corresponding pages for function details.

- After pressing **[MENU]**, you can also program menu items directly by pressing **[0]** to **[9]**, and **[*]** instead of using the soft keys (p. 53).



Programmable Settings

Date and Time **Handset**

You need to set the date and time to display the time and date the calls were received in the Caller List.

1 Press **[MENU]**.

2 Scroll to "Date and time" by pressing **[▼]** or **[▲]**, then press **Select**.

Date and time
 ↓Back ▼▲ Select↓

3 ① Enter 2 digits each for the day, month, and year.
 (Ex. To set June 15, 2005, enter "15 06 05".)

Date: 31.12.2004
 Time: 12:00 AM
 ↓AM/PM Save↓

② Enter 4 digits for the time (hour and minute).
 (Ex. To set 9:30, enter "0930".)

Example
 Date: 15.06.2005
 Time: 09:30 AM
 ↓AM/PM Save↓

- If you enter a wrong number, press **[▼]** or **[▲]** to move the cursor to the incorrect number. Enter the correct number.

4 Select "AM" or "PM" by pressing **AM/PM**.

Date: 15.06.2005
 Time: 09:30 AM
 ↓AM/PM Save↓

5 Press **Save**.

- If the handset beeps 3 times, the date and time were not set correctly. Start again from step 3.

6 Press **[OFF]**.

- When entering the time in step 3, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00 hours, enter "0100", then select "PM" in step 4.)

The date and time may be incorrect after a power failure. When "⓪ Press MENU ." flashes on the handset display, adjust the date and time.

To adjust the date and time when "⓪ Press MENU ." flashes on the handset display:

Press **[MENU]**, then go to step 3 above.

To confirm the date and time, repeat steps 1 and 2 above.

- The current date and time are displayed. When finished, press **[OFF]**.

Preparation

Programmable Settings

Dialing Mode **Handset**

If you have touch tone service, set the dialing mode to "Tone". For rotary or pulse service, set to "Pulse". The factory preset is "Tone".

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
┆Back ▼▲ Select┆
```

3 Scroll to "Set tel line" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Set tel line
┆Back ▼▲ Select┆
```

4 Press **select** at "Set dial mode".

```
Set dial mode
┆Back ▼▲ Select┆
```

5 Select "Pulse" or "Tone" by pressing **[▼]** or **[▲]**.

```
Set dial mode
:Tone
┆Back ▼▲ Save┆
```

6 Press **save**, then press **[OFF]**.

Line Mode **Handset**

The line mode is preset to "B" and generally should not be adjusted. If "Line in use" on the handset is not displayed properly or the IN USE indicator on the base unit does not light properly, the line mode selection is incorrect. Set line mode to "A".

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
┆Back ▼▲ Select┆
```

3 Scroll to "Set tel line" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Set tel line
┆Back ▼▲ Select┆
```

4 Scroll to "Set line mode" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Set line mode
┆Back ▼▲ Select┆
```

5 Select "A" or "B" by pressing **[▼]** or **[▲]**.

```
Set line mode
:B
┆Back ▼▲ Save┆
```

6 Press **save**, then press **[OFF]**.

Programmable Settings

Auto Talk **Handset**

The Auto Talk feature allows you to answer calls by simply lifting the handset off the base unit. You do not need to press [↶] or [↷]. The factory preset is OFF.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing [▼] or [▲], then press **Select**.

```
Initial setting
┆Back ▼▲ Select┆
```

3 Scroll to "Auto talk" by pressing [▼] or [▲], then press **Select**.

```
Auto talk
┆Back ▼▲ Select┆
```

4 Select "On" or "Off" by pressing [▼] or [▲].

```
Auto talk
:Off
┆Back ▼▲ Save┆
```

5 Press **save**, then press **[OFF]**.

- In order to view Caller ID information after you lift the handset to answer a call, leave the Auto Talk feature turned off.

Preparation

Programmable Settings

Ringer Volume

You can select the handset or base unit ringer volumes to high, medium, low, or off. The factory preset is HIGH. If the handset and base unit ringer is turned off, the handset or base unit will ring at the low level for intercom calls, and will not ring for outside calls. Caller names will not be announced even if the Talking Caller ID feature is turned on (p. 27).

Handset ringer volume **Handset**

1 Press **[MENU]**.

2 Press **select** at "Ringer setting".

```
Ringer setting
└Back ▼▲ Select┘
```

3 Press **select** at "Ringer volume".

```
Ringer volume
└Back ▼▲ Select┘
```

4 Select the desired volume level by pressing **[▼]** or **[▲]**.

- The volume will change and ring.
- The number of steps indicates the volume level.
- **To turn the ringer off**, press **[▼]** repeatedly until "Off ?" is displayed.

```
Ex. High
Ringer volume
Low ■■■■■■ High
└Back ▼▲ Save┘
```

5 Press **save**.

- If the handset ringer is turned off, "Ringer off" will be displayed while not in use. "Ringer off" is not displayed, if the handset is off the base unit when there are missed calls (p. 28) or the Dial Lock is turned on (p. 47).
- You can adjust the ringer volume while an outside call is ringing. Press **[▼]** or **[▲]** while the handset is ringing.

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring again as normal the next time a call is received.

Programmable Settings

Base unit ringer volume **Base Unit**

Make sure the base unit is not being used.

To set the ringer volume to high (preset), medium, or low, press **VOLUME [V]** or **[^]**.

- To increase volume, press **VOLUME [^]**.
To decrease volume, press **VOLUME [V]**.
- To stop ringing, press **[0]**.

To turn the ringer off, press and hold **VOLUME [V]** until 2 beeps sound.

To turn the ringer on, press **VOLUME [V]** or **[^]**.

- The base unit will ring at the low level.
- You can adjust the ringer volume while an outside call is ringing. Press **VOLUME [V]** or **[^]** while the base unit is ringing.
To turn the ringer off, press and hold **VOLUME [V]** until 2 beeps sound.

Preparation

Programmable Settings

Ringer Tone

You can set the handset and base unit ringers to use one of 7 ringer patterns for outside calls. "Tone 1" to "Tone 3" are bell ringer patterns. "Melody 1" to "Melody 4" are melody patterns. The factory preset is "Tone 1".

- You cannot change the ringer tone for intercom calls.
- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
 - the caller hangs up before you answer the call, or
 - another person answers the call using another phone connected on the same line.

Handset ringer tone **Handset**

1 Press **[MENU]**.

2 Press **select** at "Ringer setting".

```
Ringer setting
↓Back ▼▲ Select↓
```

3 Scroll to "Ringer tone" by pressing **[▼]** or **[▲]**, then press **select**.

```
Ringer tone
↓Back ▼▲ Select↓
```

4 Select the desired ringer tone by pressing **[▼]** or **[▲]**.

- The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 16).
- You can also select the ringer tone by pressing **[1]** to **[7]**.

```
Ringer tone
1:Tone 1
↓Back ▼▲ Save↓
```

5 Press **save**, then press **[OFF]**.

Base unit ringer tone (use either the handset or the base unit)

Base Unit

Make sure the base unit is not being used.

Press **VOLUME [V]** or **[Λ]**, then select the desired ringer tone by pressing **[1]** to **[7]**.

[1] to **[3]** : Bell ringer patterns **[4]** to **[7]** : Melody patterns

- After pressing **VOLUME [V]** or **[Λ]**, the base unit will ring using the current ringer tone.
- The base unit will ring and the ringer tone will change.
- To stop ringing, press **[0]**.

Programmable Settings

Setting the base unit ringer tone by using the **Handset**

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
└Back ▼▲ Select┘
```

3 Scroll to "Set base unit" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Set base unit
└Back ▼▲ Select┘
```

4 Press **Select** at "Ringer tone".

```
Ringer tone
└Back ▼▲ Select┘
```

5 Select the desired ringer tone by pressing **[▼]** or **[▲]**.

- The base unit will ring and the ringer tone will change. If the base unit ringer volume has been turned off, the base unit will not ring (p. 17).
- You can also select the ringer tone by pressing **[1]** to **[7]**.

```
Ringer tone
1:Tone 1
└Back ▼▲ Save┘
```

6 Press **Save**, then press **[OFF]**.

Preparation

LCD Contrast **Handset**

There are 6 levels of LCD contrast. The factory preset is "level 3".

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
└Back ▼▲ Select┘
```

3 Press **Select** at "LCD contrast".

```
LCD contrast
└Back ▼▲ Select┘
```

4 Select the desired contrast by pressing **[▼]** or **[▲]**.

- The contrast will change.

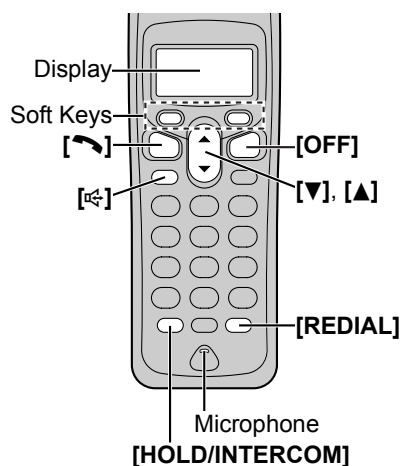
```
Ex. Level 3
LCD contrast
Low ■■■ High
└Back ▼▲ Save┘
```

5 Press **Save**, then press **[OFF]**.

Making Calls

Using the Handset **Handset**

- 1 Press [**📞**].
 - “Talk” is displayed.
- 2 Dial a phone number.
 - The dialed number is displayed.
 - After a few seconds, the display will show the length of the call.
- 3 To hang up, press [**OFF**] or place the handset on the base unit.



To have a hands-free phone conversation

- 1 Press [**📞**].
 - “SP-phone” is displayed.
- 2 Dial a phone number.
 - The dialed number is displayed.
 - After a few seconds, the display will show the length of the call.
- 3 When the other party answers, talk into the microphone.
- 4 To hang up, press [**OFF**] or place the handset on the base unit.

Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

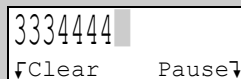
- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press [**▼**] to decrease the speaker volume.
- While talking using [**📞**], you can switch to a hands-free phone conversation by pressing [**📞**]. To switch back to the receiver, press [**📞**].

Making Calls

To dial after confirming the entered number

1 Enter a phone number.

- If you misdial, press **Clear**. Enter the correct number.
- If a pause is required when dialing, press **Pause** where needed (p. 44).
- To cancel, press **[OFF]**.



3334444
 ↵Clear Pause↵

2 Press [↶] or [↷].

3 To hang up, press **[OFF]** or place the handset on the base unit

To adjust the receiver/speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.

To decrease volume, press **[▼]**.

- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/minimum level, the handset will beep 3 times.

Ex. Receiver volume: High
 Speaker volume: Level 6



Volume
 Low ■■■■■ High
 ↵(VE) Mute↵

Basic Operation

To redial the last number dialed

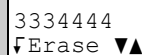
Press [↶] or [↷], then press **[REDIAL]**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1 Press **[REDIAL]**.

- The last number dialed is displayed.



3334444
 ↵Erase ▼▲

2 Scroll to the desired number by pressing [▼] or [▲].

- You can also scroll down through the list by pressing **[REDIAL]**.
- To exit the list, press **[OFF]**.

3 Press [↶] or [↷].

- **To erase an item**, scroll to the item then press **Erase**.
- If "No items stored" is displayed, the list is empty.

Making Calls

To put a call on hold

1 Press **[HOLD/INTERCOM]** during a conversation.

- “Line on hold.” is displayed.
- To transfer the call to the base unit, see page 40.

2 Press **[HOLD/INTERCOM]** again.

- “Hold” is displayed.
- You can search the Caller List or phone book while a call is on hold. To exit the list, press **[OFF]**. The call will remain on hold.

To return to the call, press [↶] or [↷].

- The base unit user can also take the call by pressing **[SP-PHONE]**.
- If another phone is connected on the same line (p. 8), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound and the Ringer indicator will start to flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

Voice Enhancer Technology

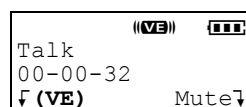
Panasonic's Voice Enhancer Technology clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand.

Voice Enhancer Technology can be turned on or off. The factory preset is OFF.

- Depending on the condition and quality of your telephone line, this feature may emphasize existing line noise. If it becomes difficult to hear, turn this feature off.

To turn this feature on, press (VE) during a conversation.

- “(VE)” is displayed.
- **To turn this feature off, press (VE) again.**
“(VE)” disappears from the display.
- After hanging up a call, the on/off setting will be retained.



When the handset is not in use, you can also turn this feature on or off by programming as follows:

1. Press **[MENU]**.
2. Scroll to “Voice enhancer” by pressing **[▼]** or **[▲]**, then press **Select**.
3. Select “On” or “Off” by pressing **[▼]** or **[▲]**.
4. Press **save**, then press **[OFF]**.

Backlit LCD display/Lighted handset keypad

The handset display and dialing buttons will light for a few seconds after pressing a button or lifting the handset off the base unit. They will also light when an intercom/outside call is being received.

Making Calls

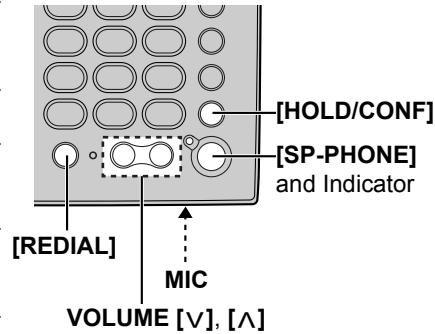
Using the Base Unit **Base Unit**

- 1 Press **[SP-PHONE]**.
 - The SP-PHONE indicator lights.

- 2 Dial a phone number.

- 3 When the other party answers, talk into the **MIC** (microphone).

- 4 To hang up, press **[SP-PHONE]**.
 - The indicator light goes out.



- To switch to the handset while using the base unit speakerphone:
 - If the handset is off the base unit, press **[]** or **[]** on the handset, then press **[SP-PHONE]** on the base unit.
 - If the handset is on the base unit, just lift up.

Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press **VOLUME [V]** to decrease the speaker volume.

Basic Operation

To adjust the speaker volume during a conversation

To increase volume, press **VOLUME [^]**.

To decrease volume, press **VOLUME [V]**.

- There are 8 volume levels. If you try to increase/decrease volume when it is at the maximum/minimum level, the base unit will beep 3 times.

To redial the last number dialed

Press **[SP-PHONE]**, then press **[REDIAL]**.

To put a call on hold

Press **[HOLD/CONF]** during a conversation.

- The SP-PHONE indicator flashes.

To return to the call, press **[SP-PHONE]**.

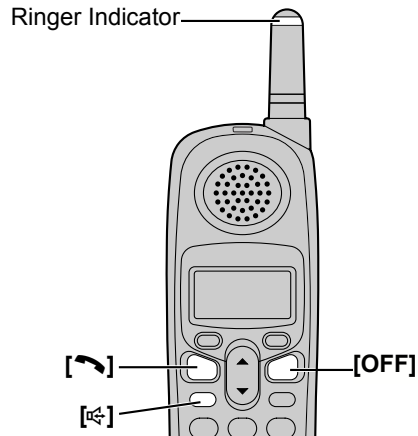
- The handset user can also take the call by pressing **[]** or **[]**.
- If another phone is connected on the same line (p. 8), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold, the call will be disconnected.

Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed, and the Ringer indicator on the handset and the IN USE indicator on the base unit flash rapidly. If you subscribe to Caller ID, see page 25.

Handset

- 1 Press [] or [].
 - You can also answer a call by pressing any button except [, [] or [**OFF**].
- 2 To hang up, press [**OFF**] or place the handset on the base unit.



Auto Talk

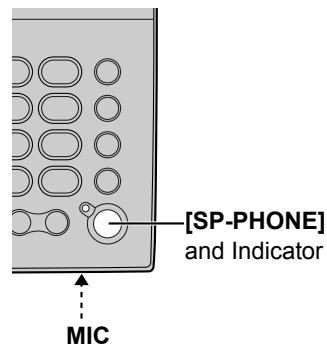
If the Auto Talk feature is turned on (p. 15), you can answer a call by simply lifting the handset off the base unit.

Temporary ringer off

You can turn the ringer off temporarily by pressing [**OFF**], while the handset is ringing for an outside call. The handset will ring again as normal the next time a call is received.

Base Unit

- 1 Press [**SP-PHONE**].
- 2 Talk into the MIC.
- 3 To hang up, press [**SP-PHONE**].



- To transfer the call to another person, see page 40.
- If the ringer volume is turned off, the unit will not ring (p. 16, 17).

Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller's information will be displayed and recorded in the Caller List.

How Caller ID information is displayed

When a call comes in, the unit will ring and the caller information will be received. Once the caller information is received, the handset display shows the caller's phone number after the ring.*

Example

15552223333

- After you answer the call, the display will show the length of the call.

*Private name display

If you receive a call from one of the phone numbers stored in the phone book, the handset will show the caller's name stored in the phone book.

Example

TINA ROBINSON
15552223333

- To use this function, names and phone numbers must be stored in the phone book (p. 33).
- If the unit does not receive Caller ID information, one of the following will be displayed:

Display	Meaning
Out of area	The caller dialed from an area which does not provide Caller ID service.
Private caller	The caller requested not to send his/her information.

- Depending on the radio communications with the base unit, the handset may not display Caller ID information immediately after the ring.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID service.
- If the name and the time/date display service is available in your area, the display will show callers' names and the time/date the calls were received. For further information, please contact your telephone company.
- You need to adjust the date and time to show the time and date the calls were received in the Caller List (p. 13).

Caller ID Service

Using Talking Caller ID

To use this feature, you need to subscribe to Caller ID. For further information, please contact your telephone company.

To activate this feature, you must turn this feature on (p. 27).

When a call is received, the unit will ring and receive caller information.

If you receive a call from one of the same phone numbers stored in the phone book or if the name display service is available in your area, the caller's name will be displayed.

Example

TINA ROBINSON
15552223333

Announcing caller information (Talking Caller ID)

If the caller's phone number is stored in the phone book, the handset and base unit will announce the name stored in that phone book (Ex. "Call from TINA ROBINSON") following every ring.

- If the caller's phone number is not stored in the phone book, "Number available" is announced, indicating you should look at the display to see who is calling.
- Depending on your telephone company, the unit may announce "Number available" before announcing the caller's name stored in the phone book.
- If the unit does not receive Caller ID information, the unit will announce "Call from out of area" or "Call from private caller".
- If the ringer volume of the handset and base unit is off, caller names will not be announced. The announcement is heard at the handset or base unit ringer volume (p. 16, 17).
- If this feature is turned off, caller names will not be announced (p. 27).
- Name pronunciation may vary.
- The unit will announce each letter of abbreviations, such as "Co." and "Inc."
- Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name will not be displayed or announced correctly.
- Your unit may mute one or more rings in order to announce the name of the caller. Talking Caller ID takes precedence over ringing.

Caller ID Service

To turn Talking Caller ID on or off

You can turn Talking Caller ID on or off for the handset and base unit separately. If this feature is off, the unit will not announce caller names. The factory preset is OFF.

Handset Talking Caller ID feature **Handset**

1 Press **[MENU]**.

2 Scroll to "Talk Caller ID" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Talk Caller ID
┆Back ▼▲ Select┆
```

3 Select "On" or "Off" by pressing **[▼]** or **[▲]**.

```
Talk Caller ID
:Off
┆Back ▼▲ Save┆
```

4 Press **save**, then press **[OFF]**.

Base unit Talking Caller ID feature **Handset**

This feature must be turned on or off for the base unit by using the handset.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
┆Back ▼▲ Select┆
```

3 Scroll to "Set base unit" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Set base unit
┆Back ▼▲ Select┆
```

4 Scroll to "Talk Caller ID" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Talk Caller ID
┆Back ▼▲ Select┆
```

5 Select "On" or "Off" by pressing **[▼]** or **[▲]**.

```
Talk Caller ID
:Off
┆Back ▼▲ Save┆
```

6 Press **save**, then press **[OFF]**.

Using the Caller List

The unit can record information up to 50 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 51st call is received, the information from the 1st call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.

Handset on the base unit

```
2 missed calls
Charging
```

①

Handset off the base unit

```
2 missed calls
Rcvd Phone
calls book
```

②

- ① The display will show the number of calls you missed.
- ② Press **Rcvd calls** to review other calls logged in the Caller List.
- If there are no items in the Caller List, "Rcvd calls" will not be displayed.
 - After viewing the missed call entries, "missed calls" will disappear from the display.

Viewing the Caller List **Handset**

- 1** Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

Ex. 2 calls missed.

```
2 missed calls
Rcvd Phone
calls book
```

```
2 missed calls
▼▲=Scroll list
All erase
```

- 2** To search from the most recent call, press **[▼]**.
To search from the oldest call, press **[▲]**.

Example

```
15553334444
3:10P 29JUN.
Erase Select
```

- 3** Press **[OFF]** to exit the list.

- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.

Using the Caller List

- If a call has name information, the caller's name and phone number are alternately displayed in step 2 on page 28 as shown on the right.

```
JACK SMITH
3:10P 29JUN.
↓Erase Select↓
```



```
15553334444
3:10P 29JUN.
↓Erase Select↓
```

- If an arrow (→) is displayed after the number in step 2 on page 28, the whole phone number will not be shown. Press **[*]** to see the remaining numbers or to return to the previous display. Each time you press **[*]**, the display will change alternately.

```
122233344445555→
3:10P 29JUN.
↓Erase Select↓
```



```
1222333444455556
666
↓Erase Select↓
```

What “√” means

“√” indicates you have already viewed this calling information or answered the call. If the same caller calls again, the call entry with the “√” will be replaced with the new call entry.

```
15553334444
3:10P 29JUN. √
```

If a caller calls more than once

The number of times the same caller called is displayed (“x2” to “x9”). The date and time of the most recent call will be recorded. After viewing a caller's information, “x2” to “x9” will be replaced with “√”.

Ex. Called 2 times.

```
15553215555
11:20A 12JUN. x2
```

Basic Operation

Calling Back from the Caller List **Handset**

1 Press **Rcvd calls**, **[▼]**, or **[▲]** to enter the Caller List.

2 Scroll to the desired caller by pressing **[▼]** or **[▲]**.

3 Press **[↶]** or **[↷]**.

- The phone number is dialed.

- In some cases, you may have to edit the number before dialing (p. 30).
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

Using the Caller List

Editing the Caller's Phone Number **Handset**

You can edit a phone number in the Caller List to call it back or store it in the phone book.

- | | |
|---|--|
| <p>1 Press Rcvd calls, [▼], or [▲] to enter the Caller List.</p> | <div style="border: 1px solid black; padding: 2px;">2 missed calls
Rcvd Phone
↓calls book ↓</div> <div style="border: 1px solid black; padding: 2px;">2 missed calls
▼▲=Scroll list
↓All erase</div> |
| <p>2 Scroll to the desired caller by pressing [▼] or [▲].</p> | <div style="border: 1px solid black; padding: 2px;">15553215555
11:20A 12JAN.
↓Erase Select↓</div> |
| <p>3 Press select.</p> | |
| <p>4 Press edit.</p> | <div style="border: 1px solid black; padding: 2px;">15553215555
↓edit Save↓</div> |
| <p>5 Add or erase digits to the beginning of the number as desired.</p> <ul style="list-style-type: none"> • To add a digit, enter a number. • To erase a digit, press ◀ or [#]. | <div style="border: 1px solid black; padding: 2px;">115553215555
↓◀ MENU=Save P↓</div> <div style="border: 1px solid black; padding: 2px;">015553215555
↓◀ MENU=Save P↓</div> |
| <p>6 To make a call to the edited number, press [↶] or [☎].
To store the edited number in the phone book, press [MENU].</p> <ul style="list-style-type: none"> • If the phone number has no name information when it is stored, continue from (a) under step 4 of “Storing Caller Information in the Phone Book” on page 31. | |

- The number edited in step 5 will not be maintained in the Caller List.
- You cannot edit a phone number, if the Dial Lock is turned on (p. 47).

To quickly add or erase a digit at the beginning of a phone number in the Caller List

1. Follow steps 1 and 2 above.
2. Add or erase digits to the beginning of the number as desired.
 - To add a digit, enter a number.
 - To erase a digit, press [**#**].
3. To make a call to the edited number, press [**↶**] or [**☎**].
To store the edited number in the phone book, press [**MENU**].

Using the Caller List

Storing Caller Information in the Phone Book

Handset

Caller's phone numbers that are in the Caller List can be stored in the phone book.

- 1** Press **Rcvd calls**, [**▼**], or [**▲**] to enter the Caller List.

2 missed calls
Rcvd Phone
f calls book f

2 missed calls
▼▲=Scroll list
fAll erase

- 2** Scroll to the desired caller by pressing [**▼**] or [**▲**].

15553215555
11:00A 12JAN. x3
fErase Selectf

- 3** Press **Select**.

- If the number requires editing, see page 30.

- 4** Press **Save**.

15553215555
fEdit Savef

- (a) If there is no name information for the caller, "Enter name" will be displayed.

—You can enter a name by performing the following steps:

- (1) enter the name (p. 34),
- (2) press [**▼**], and
- (3) press **Save**.

—If a name is not required, press [**▼**], then press **Save**.

- (b) If there is already name information for the caller, the item will be stored.

- To continue storing other items, repeat from step 2.
- To exit programming mode, press [**OFF**].

Enter name
f=Next f

CINDY TURNER
f=Next f

Basic Operation

- You cannot store Caller List item in the phone book if a phone number is not displayed or the Dial Lock is turned on (p. 47).

Using the Caller List

Erasing Caller Information **Handset**

To erase a specific caller

- 1** Press **Rcvd calls**, [**▼**], or [**▲**] to enter the Caller List.

```
2 missed calls
Rcvd      Phone
↓calls    book ↓
```

```
2 missed calls
▼▲=Scroll list
↓All erase
```

- 2** Scroll to the desired caller by pressing [**▼**] or [**▲**], then press **Erase**.

- To erase other items, repeat step 2.
- To exit the Caller List, press [**OFF**].

```
18887776666
12:20A 12JAN.
↓Erase  Select↓
```

Erased

To erase all entries

Before erasing all entries, make sure that you have viewed all missed calls.

- 1** Press **Rcvd calls**, [**▼**], or [**▲**] to enter the Caller List.

```
Rcvd      Phone
↓calls    book ↓
```

- 2** Press **All erase**.

```
0 missed call
▼▲=Scroll list
↓All erase
```

- 3** Press **Yes**.
- All entries in your Caller List are erased.

```
All erase?
↓No          Yes↓
```

All erased

- To cancel erasing, press **No** after step 2.

Phone Book

The handset can store up to 50 names and phone numbers in its phone book. You can make a call by selecting a name or number from the phone book.

Storing Names and Numbers **Handset**

1 Press **Phone book**.

Rcvd calls **Phone book**

2 Press **Add**.

- The display will show the number of stored items.

Phone book
7 items

Add Search

3 Enter a name of up to 16 characters with the dialing buttons ([0] to [9]) (p. 34), then press [▼].

- If a name is not required, press [▼] then go to step 4.

Enter name

▼=Next ▶

Example

Tom

◀ ▼=Next ▶

4 Enter a phone number of up to 32 digits.

- Each time you press ◀, a digit is erased. To erase all of the digits, press and hold ◀.
 - If a pause is required when dialing, press P.
- A pause is stored in a phone number as one digit (p. 44).

Enter phone no.

P

Example

5557654321

◀ ▼=Next P

5 Press [▼].

- If you want to change the name, press **Edit**. The display returns to step 3. Change the name.
- If you want to change the number, press [▲]. The display returns to step 4. Change the number.

Tom
5557654321

◀ Edit Save ▶

6 Press **Save**.

- To continue storing other items, repeat from step 2.

7 Press [OFF].

When the Dial Lock is turned on (p. 47), only numbers stored in the phone book as emergency numbers can be dialed.

To store an emergency number:

When storing a name in step 3, press [1] to enter # at the beginning of the name (p. 34).

Phone Book

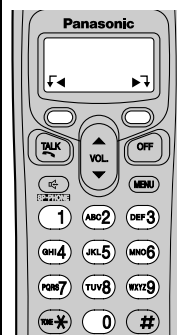
- To store numbers for calling card access (see “Chain Dial” on page 36), we recommend you add pauses after each item. Storing pauses with numbers will prevent misdialing (p. 44). The delay time necessary will depend on your telephone company.
- You cannot store a name and phone number in the phone book if the Dial Lock is turned on (p. 47).

Selecting characters to enter names

Enter names using the dialing buttons. Press each button until the desired character is displayed.

- Pressing each button selects a character in the order shown below.

Keys	Characters	Keys	Characters
[1]	# & ' () * , - . / 1	[6]	m n o M N O 6
[2]	a b c A B C 2	[7]	p q r s P Q R S 7
[3]	d e f D E F 3	[8]	t u v T U V 8
[4]	g h i G H I 4	[9]	w x y z W X Y Z 9
[5]	j k l J K L 5	[0]	0 Space
◀	Erases the character to the left.		
▶	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)		



For example, to enter “Tom”:

1 Press [8] four times.	T
2 Press [6] three times, then press ▶ to move the cursor.	To
3 Press [6] once.	Tom

If you make a mistake when entering a name or number

Use ◀ to erase the incorrect character. Each time you press ◀, a character is erased. Re-enter the correct character. To erase all characters, press and hold ◀.

Phone Book

Dialing from the Phone Book **Handset**

1 Press **Phone book**.

2 Press **Search**.

Phone book
7 items
↓Add Search↓

3 Scroll to the desired item. To scroll down, press [▼]. To scroll up, press [▲].

0-9=Name search
▼▲=Scroll list

Phone book items are sorted in the following order:	
1	Alphabet letters (Alphabetical)
2	Space & ' () , - . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

4 Press [↵] or [⏪].

- The displayed phone number is dialed.

Frank
4445555
↓Erase Edit↓

- If "No items stored" is displayed in step 1, the phone book is empty.
- To exit the phone book, press **[OFF]**.
- To view a phone number over 16 digits long, repeat steps 1 to 3, then press **Edit** and then [▼]. When finished, press **[OFF]**.
- To quickly search the desired item, press [▼] or [▲] after step 1.

To search for a name by initial

- Press **Phone book**.
- Press **Search**.
- Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index on page 36).
Ex. To find "Frank", press **[3]** repeatedly until the first item under "F" is displayed.
 - If there are no items beginning with the character you selected, the first item in the next alphabetical index will be displayed.
- Press [▼] repeatedly until the desired name is displayed.

Advanced Operation

Phone Book

Index table

Keys	Index	Keys	Index
[1]	Symbols, 1	[6]	M, N, O, 6
[2]	A, B, C, 2	[7]	P, Q, R, S, 7
[3]	D, E, F, 3	[8]	T, U, V, 8
[4]	G, H, I, 4	[9]	W, X, Y, Z, 9
[5]	J, K, L, 5	[0]	0, Space

Chain Dial **Handset**

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination number from the phone book.

Ex. Using a long distance calling card

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 33).

1. Search and dial from phone book: 18000123456 (Calling card access number)
 - The voice guidance may be announced.
2. Search and dial from phone book: 1234 (Calling card PIN)
3. Search and dial from phone book: 15550123456 (Destination number)

1 While you are on a call; Press [MENU].

2 Search for the desired item by pressing [▼] or [▲].

- To search for an item by initial, see page 35.

```
Phone book
▼▲=Scroll list
↓Back   Search↓
```

3 Press call.

- The phone number is dialed.
- If required, repeat steps 1 to 3 for any remaining numbers.

```
Alan
15550123456
↓Back   Call↓
```

- If you have rotary or pulse service, you need to press [✖] before pressing [MENU] in step 1 to change the dialing mode temporarily to tone.

Phone Book

Editing an Item in the Phone Book **Handset**

1 Press **Phone book**.

2 Press **Search**.

3 Scroll to the desired item by pressing [**▼**] or [**▲**], then press **Edit**.

- To search for the item by initial, see page 35.

Jane
3456789
↓Erase Edit↓

4 Edit the name (p. 34), then press [**▼**].

- If you do not need to change the name, press [**▼**] then go to step 5.

Jane Walker
← ▼=Next →

5 Edit the phone number, then press [**▼**].

- If you do not need to change the number, press [**▼**] then go to step 6.
- Each time you press **←**, a digit is erased. To erase all of the digits, press and hold **←**.

5553456789
← ▼=Next P↓

6 Press **Save**.

- To continue editing other items, repeat from step 3.

7 Press [**OFF**].

- You cannot edit an item, if the Dial Lock is turned on (p. 47).

Erasing an Item in the Phone Book **Handset**

1 Press **Phone book**.

2 Press **Search**.

3 Scroll to the desired item by pressing [**▼**] or [**▲**], then press **Erase**.

- To search for the item by initial, see page 35.

Helen
5557778888
↓Erase Edit↓

4 Press **Yes**.

- To erase other items, repeat from step 3.

Erase?
↓No Yes↓

5 Press [**OFF**].

- To cancel erasing, press **No** after step 3.
- You cannot erase an item, if the Dial Lock is turned on (p. 47).

Intercom

Intercom calls can be made between the handset and the base unit.

Making Intercom Calls

From **Handset**

1 Press **[HOLD/INTERCOM]**.

- The base unit will ring for 1 minute.
- To stop paging, press **[OFF]**.

Calling Base

2 When the paged party answers, start talking.

- You can switch to the speaker by pressing **[🔊]**. To switch back to the receiver, press **[🔇]**.

Intercom
00-00-05
Mute ↴

3 To disconnect the intercom, press **[OFF]**.

From **Base Unit**

Using this feature, you can also locate a misplaced handset.

1 Press **[LOCATOR/INTERCOM]**.

- The SP-PHONE indicator lights.
- The handset will ring for 1 minute.
- To stop paging, press **[SP-PHONE]** or **[LOCATOR/INTERCOM]**.

2 When the paged party answers, talk into the **MIC**.

3 To disconnect the intercom, press **[SP-PHONE]** or **[LOCATOR/INTERCOM]**.

- The indicator light goes out.

During an intercom call:



- If you have difficulty hearing while using the handset speakerphone and base unit speaker, decrease the speaker volume by pressing **VOLUME [V]** on the base unit or **[▼]** on the handset.
- If an incoming call is being received, you will hear two tones (incoming call tone, page 45) and the IN USE indicator will flash rapidly on the base unit. To answer the call;
 - if using the handset, press **[OFF]**, then **[🔇]** or **[🔊]**.
 - if using the base unit, press **[SP-PHONE]** twice.



Intercom

Answering Intercom Calls

Handset

When the handset is paged, it rings and the Ringer indicator flashes rapidly.

1 Press [, [] or [**HOLD/INTERCOM**].

- You can also answer a call by pressing any button except [, [] or [**OFF**].

Call from Base

2 To disconnect the intercom, press [**OFF**].

- If the Auto Talk feature is turned on (p. 15), you can also answer a page by simply lifting the handset off the base unit.

Base Unit

When the base unit is being paged, it rings.

1 Press [**SP-PHONE**] or [**LOCATOR/INTERCOM**].

2 To disconnect the intercom, press [**SP-PHONE**] or [**LOCATOR/INTERCOM**].

- When the ringer volume is turned off (p. 16, 17), the handset and the base unit will ring at the low level for intercom calls.
- You cannot change the ringer tone for intercom calls.

Advanced Operation

Transferring a Call

You can transfer an outside call to the base unit or the handset.

From the **Handset** to the **Base Unit**

1 Handset:

(1) During a call, press **[HOLD/INTERCOM]**.

- The call is put on hold.

(2) Press **Base**.

(3) Wait for the paged party to answer, then you can announce the transfer.

- After the paged party answers, "Intercom hold" is displayed.
- If the paged party does not answer, press **[↶]** or **[↷]** to return to the outside call.

Line on hold.
Transfer to
Base

Hold
Calling Base

2 Base unit:

Press **[SP-PHONE]** or **[LOCATOR/INTERCOM]** to answer the page.

3 Handset: To complete the transfer, press **[OFF]**.

From the **Base Unit** to the **Handset**

1 Base unit: During a call, press **[LOCATOR/INTERCOM]**.

- The call is put on hold.
- If the paged party does not answer, press **[LOCATOR/INTERCOM]** to return to the outside call.

2 Handset: Press **[↶]**, **[↷]** or **[HOLD/INTERCOM]** to answer the page.

- You can also answer a call by pressing any button except **[▼]**, **[▲]** or **[OFF]**.

3 Base unit: To complete the transfer, press **[SP-PHONE]**.

Transferring a Call

Quick call transfer

You can transfer a call without waiting for the paged party to answer.

Handset

- 1 During a call, press **[HOLD/INTERCOM]**, then press **Base**.
- 2 Press **[OFF]** to hang up.

Base Unit

- 1 During a call, press **[LOCATOR/INTERCOM]**.
- 2 Press **[SP-PHONE]** to hang up.

- The call will be transferred directly.
- The paged party can answer the transferred call by pressing **[↶]**, **[↷]** or **[SP-PHONE]**.
- After the paged party answers, the transfer is complete.
- If the paged party does not answer:
 - for the handset, press **[↶]** or **[↷]** to return to the outside call.
 - for the base unit, press **[SP-PHONE]** to return to the outside call.
- If the paged party does not answer within 60 seconds after you hang up, your phone will ring and the call will be returned to your phone. You may speak to the caller again by pressing **[↶]**, **[↷]** or **[SP-PHONE]**.
If you do not answer the call within 4 minutes, the call will be disconnected.

Advanced Operation

Conference Calls

While you are talking with an outside caller, the base unit user or the handset user can join the conversation and establish a conference call.

Handset

- 1 During a call, press **[HOLD/INTERCOM]**.
 - The call is put on hold.
- 2 Press **Base**.
- 3 When the paged party answers, press **CONF** on your unit to make a conference call.
 - "Conference" is displayed during a conference call.

Base Unit

- 1 During a call, press **[LOCATOR/INTERCOM]**.
 - The call is put on hold.
- 2 When the paged party answers, press **[HOLD/CONF]** on your unit to make a conference call.

- To leave the conference, press **[OFF]** on the handset or press **[SP-PHONE]** on the base unit. The two other parties can continue the conversation.
- During a conference, the outside call can be placed on hold by pressing **[HOLD/INTERCOM]** on the handset or **[HOLD/CONF]** on the base unit. Internal communications are not suspended. Only the person who placed the call on hold can resume the full conference by pressing **CONF** on the handset or **[HOLD/CONF]** on the base unit.

Call Share

This feature allows the base unit or the handset to join an existing outside call.

To join a conversation (Call Share)

Handset

Press **[↶]** or **[↷]**.

- "Conference" is displayed.

Base Unit

Press **[SP-PHONE]**.

Special Features

Temporary Tone Dialing (For Rotary or Pulse Service Users)

Handset Base Unit

Press **[*]** (TONE) before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the dialing mode will return to pulse.

Muting Your Conversation

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

Handset Press **Mute**.

- “Mute” will flash.
- **To release the mute**, press **Mute** again.
- If you press **[↔]** or **[↔]** to switch between the receiver and speaker, the mute will be released.

Talk
00-00-30
↓ (VE) Mute ↓

Base Unit Press **[MUTE]**.

- The SP-PHONE indicator flashes.
- **To release the mute**, press **[MUTE]** again.

For Call Waiting Service Users

Handset Base Unit

Press **[FLASH/CALL WAIT]** if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold.
- If this function does not operate properly, consult your telephone company for details.

Special Features

Using the PAUSE Key

(For PBX Line/Long Distance Calls) **Handset**

We recommend you press **Pause** or **P** if a pause is required for dial with a PBX or to make a long distance call.

Ex. Line access number **[9]** (PBX)

[9] ➡ **Pause** or **P** ➡

- Pressing **Pause** or **P** once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 21) or dial a stored number (p. 35, 36).
- Pressing **Pause** or **P** more than once increases the length of the pause between numbers.

Example

9P15556667777
 ↓Clear Pause↓

OR

9P15551234567
 ↓◀ ▼=Next P↓

FLASH Button **Handset** **Base Unit**

Pressing **[FLASH/CALL WAIT]** allows you to use special features of your host PBX such as transferring an extension call, or accessing optional telephone services such as call waiting.

- Pressing **[FLASH/CALL WAIT]** cancels Temporary Tone Dialing mode or the mute (p. 43).

Selecting the flash time **Handset**

The flash time required depends on your telephone exchange or host PBX. You can select the following flash times: “700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)”. The factory preset is “700 ms”.

- If PBX functions do not work correctly, consult your PBX supplier for the correct settings.

1 Press **[MENU]**.

2 Scroll to “Initial setting” by pressing **[▼]** or **[▲]**, then press **Select**.

Initial setting
 ↓Back ▼▲ Select↓

3 Scroll to “Set tel line” by pressing **[▼]** or **[▲]**, then press **Select**.

Set tel line
 ↓Back ▼▲ Select↓

4 Scroll to “Set flash time” by pressing **[▼]** or **[▲]**, then press **Select**.

Set flash time
 ↓Back ▼▲ Select↓

5 Select the desired time by pressing **[▼]** or **[▲]**.

Set flash time
 :700ms
 ↓Back ▼▲ Save↓

6 Press **save**, then press **[OFF]**.

Special Features

Incoming Call Tone **Handset** **Base Unit**

During an intercom call (p. 38), you can be informed of incoming calls by two tones. If this feature is turned on, incoming call tones will be heard for as long as the line is ringing. If this feature is set to "2", incoming call tones will be heard only 2 times. If this feature is turned off, no tones will be heard. The factory preset is "2". Using the handset, this feature can be set separately for the handset and base unit.

Handset incoming call tone **Handset**

1 Press **[MENU]**.

2 Press **Select** at "Ringer setting".

```
Ringer setting
↓Back ▼▲ Select↓
```

3 Scroll to "Incoming call." by pressing **[▼]** or **[▲]**, then press **Select**.

```
Incoming call.
↓Back ▼▲ Select↓
```

4 Select "On", "Off" or "2" by pressing **[▼]** or **[▲]**.

```
Incoming call
tone :2
↓Back ▼▲ Save↓
```

5 Press **save**, then press **[OFF]**.

Base unit incoming call tone **Handset**

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
↓Back ▼▲ Select↓
```

3 Scroll to "Set base unit" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Set base unit
↓Back ▼▲ Select↓
```

4 Scroll to "Incoming call." by pressing **[▼]** or **[▲]**, then press **Select**.

```
Incoming call.
↓Back ▼▲ Select↓
```

5 Select "On", "Off" or "2" by pressing **[▼]** or **[▲]**.

```
Incoming call
tone :2
↓Back ▼▲ Save↓
```

6 Press **save**, then press **[OFF]**.

Special Features

Key Tone **Handset**

You can select whether or not the handset keys will sound tones (key tone, confirmation tone, error tone). The factory preset is ON.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Initial setting
┆Back ▼▲ Select┆
```

3 Scroll to "Key tone" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Key tone
┆Back ▼▲ Select┆
```

4 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

```
Key tone
:On
┆Back ▼▲ Save┆
```

5 Press **save**, then press **[OFF]**.

Special Features

Dial Lock **Handset** **Base Unit**

The Dial Lock feature allows you to prevent others from making calls with the handset and base unit. You can turn the Dial Lock on for both the handset and base unit using the handset or the base unit. To use this feature, turn the feature on. The factory preset is OFF.

When the Dial Lock is turned on, only numbers stored in the phone book as emergency numbers (numbers stored with a # at the beginning of the name) can be dialed (p. 33). We recommend storing emergency numbers in the phone book before using this feature.

To turn the Dial Lock on (use either the handset or the base unit)

Handset

1 Press **[MENU]**.

2 Scroll to "Dial lock" by pressing **[▼]** or **[▲]**, then press **Select**.

```
Dial lock
┆Back ▼▲ Select┆
```

3 Enter a 4-digit password.

- This password is required when canceling the Dial Lock.
- If more than 4 digits are entered, the last 4 digits are the password.

```
Enter password
:
┆Back┆
```

4 Press **Save**.

```
Example
Enter password
:1234
┆Back Save┆
```

5 Press **Yes**, then press **[OFF]**.

- "Dial lock on" is displayed.

```
Turn Dial lock
on?
┆Back Yes┆
```

Base Unit

1 Press **[DIAL LOCK]**.

- The DIAL LOCK indicator flashes.

2 Enter a 4-digit password.

- If more than 4 digits are entered, the last 4 digits are the password.

3 Press **[#]**.

4 Enter the password again.

5 Press **[DIAL LOCK]**.

- A long beep sounds and the indicator lights.
- If the base unit beeps 3 times, the wrong password was entered in step 4. Start again from step 1.

Special Features

- If the Dial Lock is turned on, the handset displays “Dial lock” while not in use and the DIAL LOCK indicator on the base unit lights. “Dial lock” is not displayed, if the handset is off the base unit when there are missed calls (p. 28).

- If you make a call while the Dial Lock is turned on:
 - using the handset, the handset beeps 3 times and “Dial locked” is displayed.
 - using the base unit, the base unit beeps 3 times.
- Please write down your password. If you forget your password, consult your nearest Panasonic service center.

To cancel the Dial Lock (use either the handset or the base unit)

Handset

1 Press **[MENU]**.

2 Scroll to “Dial lock” by pressing **[▼]** or **[▲]**, then press **Select**.

Dial lock
 ↓Back ▼▲ Select↓

3 Enter the password set when the Dial Lock was turned on.

Enter password
 :
 ↓Back

4 Press **save**.

Enter password
 :****
 ↓Back **Save**↓

5 Press **yes**, then press **[OFF]**.

- “Dial lock off” is displayed.
- If you entered the wrong password, the handset beeps 3 times and “Save error” is displayed. Enter the correct password.

Turn Dial lock
 off?
 ↓Back **Yes**↓

Base Unit

1 Press **[DIAL LOCK]**.

- The DIAL LOCK indicator flashes.

2 Enter the password set when the Dial Lock was turned on.

3 Press **[DIAL LOCK]**.

- A long beep sounds and the indicator light goes out.
- If you entered the wrong password, the base unit beeps 3 times. Start again from step 1.

Special Features

Re-registering the Handset **Handset & Base Unit**

If “No link to base. Move closer to base, try again.” is displayed even when using the handset near the base unit, the handset may have lost communication with the base unit. You need to re-register the handset to the base unit.

- **Have both the handset and base unit nearby during registration.**
- **Follow steps 1 and 2 listed below. You have about 1 minute to complete them.**

1 Base unit:

Press and hold [**LOCATOR/INTERCOM**] until a beep sounds.

- The CHARGE indicator flashes.

2 Handset:

Press and hold [**FLASH/CALL WAIT**] until “Handset Registering” is displayed.

- When registration is complete, a beep sounds from the handset.
- **Wait for 20 seconds after registration is complete while the handset establishes communication with the base unit.**

Handset
Registering



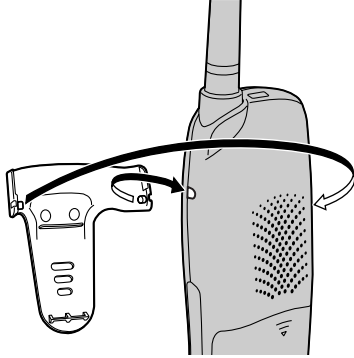
Handset [1]
Registered

- If the handset beeps 3 times and “Error!!” is displayed, an error occurred. Try again from step 1.
- You can stop registration by pressing [**OFF**] on the handset, and pressing [**LOCATOR/INTERCOM**] on the base unit.

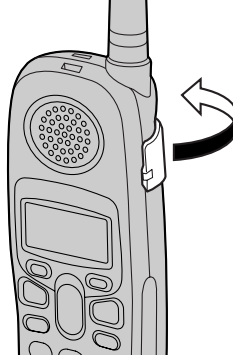
Belt Clip

You can hang the handset on your belt or pocket using the included belt clip.

To attach the belt clip



To remove the belt clip

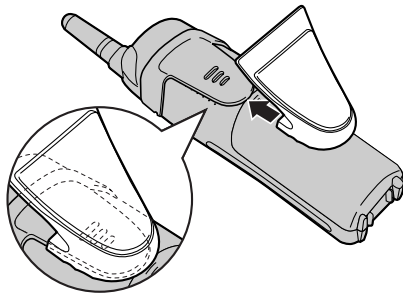


Shoulder Rest Attachment

Use the shoulder rest attachment if you need to keep your hands free during a phone conversation.

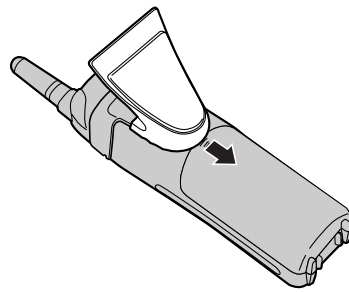
To attach the shoulder rest attachment

Attach the included belt clip to the handset (see above), then attach the shoulder rest attachment to the belt clip as shown below. You will hear a click when the shoulder rest attachment is in place.



To remove the shoulder rest attachment

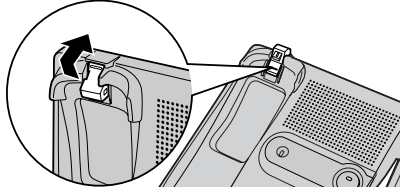
Slide the base of the attachment in the direction of the arrow as shown below.



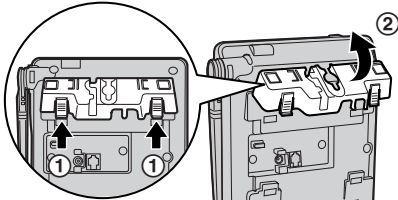
Wall Mounting

This unit can be mounted on a wall.

- 1 Push the hook and turn it upward. Turn the hook until a click is heard.

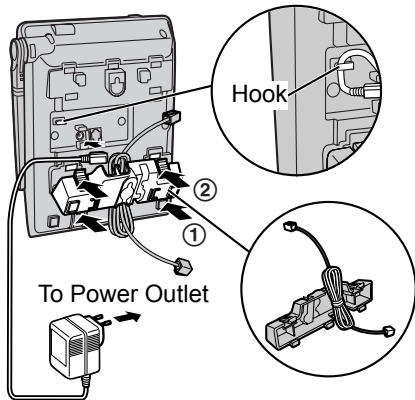


- 2 Press the tabs in the direction of the arrows (①), then remove the wall mounting adaptor (②).



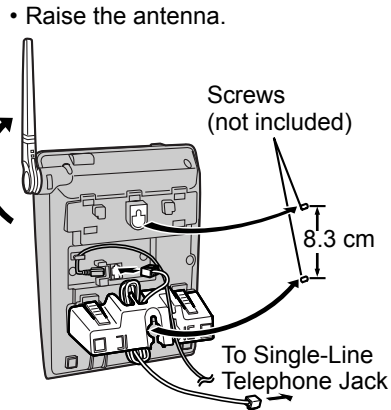
- 3 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push the adaptor in the direction of the arrows (① and ②).

- The word "UP WALL" should face upward.
- Fasten the AC adaptor cord to prevent it from being disconnected.



Wall Template

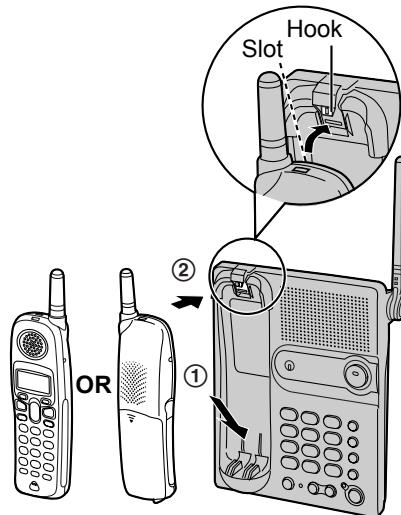
- 4 Install screws using the wall template below. Connect the telephone line cord. Mount the unit, then slide it down.



- 5 To charge the handset battery:

Rest the handset on the charge contacts (①), then push the top of the handset so the hook snaps into the slot at the top of the handset (②).

- The unit beeps once and the CHARGE indicator lights.



Useful Information

8.3 cm

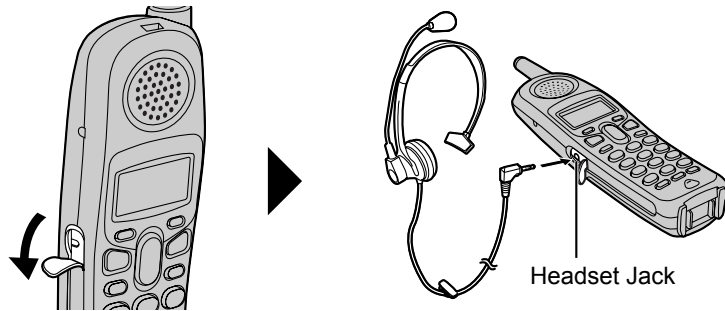
51

Optional Headset

Connecting the optional headset to the handset allows hands-free phone conversation. Please use only the Panasonic KX-TCA89BX headset.

Connecting the optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.



To switch to the speakerphone while using the headset:

Press [**⇐**]. To return to the headset, press [**⇒**].

Direct Commands

Handset

After pressing **[MENU]**, you can also program menu items directly by pressing **[0]** to **[9]**, and **[*]** instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	[1] [1]	[0] : Off [1] : Low [2] : Medium [3] : High	p. 16
Ringer tone (for handset)	[1] [2]	[1]–[3] : Tone pattern 1–3 [4]–[7] : Melody pattern 1–4	p. 18
Incoming call tone (for handset)	[1] [3]	[1] : On [2] : Twice [0] : Off	p. 45
Date and time	[4]	Go to Step 3 on page 13.	—
Voice enhancer	[5]	[1] : On [0] : Off	p. 22
Dial lock	[6]	Go to Step 3 on page 47.	—
Talking Caller ID (for handset)	[9]	[1] : On [0] : Off	p. 27
LCD contrast	[0] [1]	[1]–[6] : Level 1–6	p. 19
Key tone	[0] [2]	[1] : On [0] : Off	p. 46
Auto talk	[0] [3]	[1] : On [0] : Off	p. 15
Dial mode	[0] [5] [1]	[1] : Pulse [2] : Tone	p. 14
Flash time	[0] [5] [2]	[1] : 700 ms [2] : 600 ms [3] : 400 ms [4] : 300 ms [5] : 250 ms [6] : 110 ms [7] : 100 ms [8] : 90 ms	p. 44
Line mode	[0] [5] [3]	[1] : A [2] : B	p. 14
Ringer tone (for base unit)	[0] [*] [1]	[1]–[3] : Tone pattern 1–3 [4]–[7] : Melody pattern 1–4	p. 19
Incoming call tone (for base unit)	[0] [*] [2]	[1] : On [2] : Twice [0] : Off	p. 45
Talking Caller ID (for base unit)	[0] [*] [4]	[1] : On [0] : Off	p. 27

During programming:

When "Save" is displayed, press the right soft key to **save the new settings**.

To exit programming, press [OFF].

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.

If the Following Appear on Your Display...

The following will be displayed when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery	<ul style="list-style-type: none"> The battery needs to be charged. Recharge the battery (p. 9).
Charge for 6h	<ul style="list-style-type: none"> The battery has been discharged. The handset will not work. Fully charge the battery (p. 9).
No link to base. Move closer to base, try again.	<ul style="list-style-type: none"> The handset has lost communication with the base unit. Walk closer to the base unit and try again or re-register the handset (p. 49). Confirm the base unit's AC adaptor is plugged in. Raise the base unit antenna.
Please lift up and try again.	<ul style="list-style-type: none"> A handset button was pressed while the handset was on the base unit. Lift the handset and press the button again.
Busy	<ul style="list-style-type: none"> The base unit is in use. Try again later.
Error!!	<ul style="list-style-type: none"> When you tried to re-register the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again.
Phone book full	<ul style="list-style-type: none"> When you tried to store an item in the phone book, the phone book memory was full. Press [OFF] to exit the programming mode. To erase other items from the phone book, see page 37.
System is busy. Please try again later.	<ul style="list-style-type: none"> The handset has lost communication with the base unit. Walk closer to the base unit and try again.
Save error	<ul style="list-style-type: none"> The entered password was wrong in programming the Dial Lock. Enter the correct password.
Dial locked	<ul style="list-style-type: none"> The Dial Lock is turned on. If necessary, cancel the Dial Lock (p. 48).
Line in use	<ul style="list-style-type: none"> The base unit is conducting an outside call or a parallel connected telephone is in use.
Line on hold	<ul style="list-style-type: none"> The base unit is on hold for an outside call.

Troubleshooting







If the handset display shows error messages, see “If the Following Appear on Your Display...” (p. 54) for the Cause & Remedy.

Problem	Cause & Remedy
“No link to base. Move closer to base, try again.” is displayed and an alarm tone sounds.	<ul style="list-style-type: none"> You are too far from the base unit. Walk closer to the base unit. Confirm the base unit’s AC adaptor is plugged in. Raise the base unit antenna. If the above remedies do not solve the problem, the handset may have lost communication with the base unit. Register the handset again (p. 49).
The handset and/or base unit does not work.	<ul style="list-style-type: none"> Check the settings (p. 8–10). Check whether the dialing mode setting is correct (p. 14). Fully charge the battery (p. 9). Clean the charge contacts and charge again (p. 10). Check battery Installation (p. 9). Unplug the base unit’s AC adaptor to reset it. Plug in, and try again. Re-install the battery (p. 9) and fully charge it.
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"> Move the handset and base unit away from other electrical appliances (p. 3). Walk closer to the base unit. Raise the base unit antenna. If the unit is connected to a telephone line with DSL service, you may hear noise from the receiver or speaker during conversations. We recommend connecting a noise filter (contact your DSL service provider) to the telephone line between the unit and the telephone line jack.
The handset and/or base unit does not ring.	<ul style="list-style-type: none"> The ringer volume is turned off. Set to high, medium, or low (p. 16, 17).
The handset display is blank.	<ul style="list-style-type: none"> If the handset display is blank, fully charge the battery (p. 9).
You cannot program any function items.	<ul style="list-style-type: none"> Programming is not possible while the handset and/or base unit is being used. Do not pause for over 60 seconds while programming. Walk closer to the base unit. When the Dial Lock is turned on (p. 47), you cannot store the phone number in the phone book.

Troubleshooting

Problem	Cause & Remedy
While programming or searching, the handset starts to ring and the program/search stops.	<ul style="list-style-type: none"> A call is coming in. To answer the call, press [↶], [↷] or [SP-PHONE]. Start again from the beginning after hanging up.
You cannot make an intercom/outside call.	<ul style="list-style-type: none"> If the handset or base unit is in use, you may not be able to make a call. Try again later. You cannot make an outside call when the Dial Lock is turned on. To cancel the mode, see page 48.
You cannot redial.	<ul style="list-style-type: none"> If the last number dialed was more than 48 digits long, the number will not be redialed correctly. You cannot redial when the Dial Lock is turned on. To cancel the mode, see page 48.
The handset does not display the caller's phone number.	<ul style="list-style-type: none"> You need to subscribe to Caller ID. Other telephone equipment may be interfering with your phone. Disconnect it and try again. Other electrical appliances connected to the same outlet may be interfering with Caller ID. Telephone line noise may be affecting Caller ID. The caller requested not to send his/her Caller ID information (p. 25). If a call is being transferred to you, the Caller ID information will not be displayed. If a (separate) Caller ID box is connected between the base unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack. If the unit is connected to a telephone line with DSL service, the unit may not display caller's phone number properly. We recommend connecting a noise filter (contact your DSL service provider) to the telephone line between the unit and the telephone line jack.
The handset and/or base unit does not announce the displayed caller's name.	<ul style="list-style-type: none"> The handset and/or base unit ringer volumes are turned off. Set to high, medium, or low (p. 16, 17). The Talking Caller ID feature is turned off. Turn it on (p. 27).

Troubleshooting

Problem	Cause & Remedy
The handset and/or base unit does not announce the displayed caller's name properly.	<ul style="list-style-type: none"> • Name pronunciation may vary. • The handset and/or base unit will announce each letter of abbreviations, such as "Co." and "Inc." • Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name will not be announced correctly.
The handset display exits the Caller List or phone book.	<ul style="list-style-type: none"> • Do not pause for over 60 seconds while searching.
"Recharge battery" is displayed, "  " flashes, or the handset beeps intermittently.	<ul style="list-style-type: none"> • Fully charge the battery (p. 9).
"Charge for 6h" and "  " are displayed and the handset does not work.	<ul style="list-style-type: none"> • The battery has been discharged. Fully charge the battery (p. 9). • Check battery installation (p. 9).
You charged the battery fully, but "Recharge battery" is still displayed and/or "  " continues to flash, or "Charge for 6h" and "  " are displayed.	<ul style="list-style-type: none"> • Clean the charge contacts and charge again (p. 10). • The battery may need to be replaced. If you install a new battery, fully charge it (p. 9).
Time setting is erased, and "  Press MENU." flashes on the handset display.	<ul style="list-style-type: none"> • If a power failure occurs, time setting may be erased. Set the date and time again (p. 13).
The CHARGE indicator does not go out after the battery has been charged.	<ul style="list-style-type: none"> • This is normal.
You cannot have a conversation using the headset.	<ul style="list-style-type: none"> • Make sure the optional headset is connected properly (p. 52). • If "SP-phone" is displayed on the handset, press [] to switch to the headset.

Safety Instructions

Take special care to follow the safety suggestions listed below.

Safety

- 1) The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 2) When left unused for a long period of time, the base unit should be unplugged from the household AC outlet.

Installations


Environment

- 1) Do not use this unit near water—for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
- 2) The unit should be kept away from heat sources such as radiators, kitchen range, etc. It also should not be placed in rooms where the temperature is less than 5°C or greater than 40°C.
- 3) The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

Placement

- 1) Do not place heavy objects on top of this unit.
- 2) Care should be taken so that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.
- 3) Place the unit on a flat surface.

For best performance

- 1) If noise prevents the conversation from being understood at the handset, approach the base unit to lessen the noise.
- 2) The handset should be used at the HIGH volume setting when the reception tone is difficult to hear.
- 3) The handset should be fully recharged on the base unit when “Recharge battery” is displayed and/or “” flashes.
- 4) The handset antenna should not be touched during use because of its high sensitivity.
- 5) The maximum calling distance may be shortened when the unit is used in the following places: Near obstacles such as hills, tunnels, undergrounds, near metal objects such as wire fences, etc.

Medical

Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2400 MHz to 2481 MHz, and the power output level can range from 0.04 to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

Safety Instructions

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

If there is any trouble, disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, do not reconnect the unit to the telephone line until the trouble has been repaired. If the known working phone does not operate properly, consult your telephone company.

Specifications

■ Base Unit

Power Supply: AC Adaptor (220–240 V AC, 50/60 Hz)

Power Consumption: Standby: Approx. 2.0 W
Maximum: Approx. 5.4 W

Frequency: 2.4 GHz – 2.48 GHz

Dimensions (H x W x D): Approx. 85 mm x 175 mm x 200 mm

Mass (Weight): Approx. 460 g

■ Handset

Power Supply: Ni-MH battery (3.6 V, 830 mAh)

Frequency: 2.4 GHz – 2.48 GHz

Dimensions (H x W x D): Approx. 208 mm x 52 mm x 39 mm

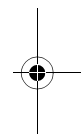
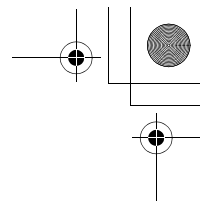
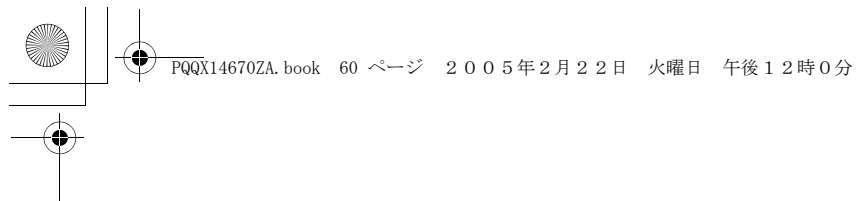
Mass (Weight): Approx. 190 g

Security Codes: 1,000,000

■ Dialing Mode: Tone (DTMF)/Pulse

■ Operating Environment: 5 °C – 40 °C

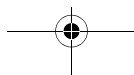
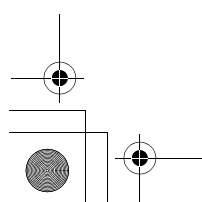
Specifications are subject to change without notice.



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